

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT0404TR		FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application No.		International filing da	te (day/month/year)	Priority date (day/month/year)			
PCT/JP2004/008044		09.06.200	4	20.06.2003			
Internati	International Patent Classification (IPC) or national classification and IPC						
Applicant TOYO TIRE & RUBBER CO., LTD.							
1.				ninary examination re e applicant according t		nternational Preliminary Examining Authority	
2.	This R	EPORT consists	of a total of	5	sheets, including	this cover sheet.	
3.							
a. (sent to the applicant and to the International Bureau) a total of 6 sheets, as follows:							
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
	b. <u>L</u>	(sent to the I	mernanonai i	sureau only) a lotal of	(indicate type and number		
		related thereto	, in computer	readable form only, a	s indicated in the Suppler	_, containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see	
Section 802 of the Administrative Instructions).							
4. This report contains indications relating to the following items:							
	\boxtimes	Box No. I	Basis of the	report			
		Box No. II	Priority				
	\sqcup	Box No. III	Non-establis	shment of opinion with	regard to novelty, inventi	ve step and industrial applicability	
		Box No. IV	Lack of unit	y of invention			
		Box No. V	No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
ł	\bowtie	Box No. VI	o. VI Certain documents cited				
		Box No. VII	Certain defe	cts in the international	application	pplication	
<u> </u>	<u> </u>	Box No. VIII	Certain obse	ervations on the interna	ational application		
Date of s	submissi	on of the demand	I		Date of completion of this	s report	
Name an	ıd mailiı	ng address of the	IPEA/JP		Authorized officer		
Facsimil	e No.				Telephone No.		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/008044

Don M.	I Posic of the resent						
Box No.	. I Basis of the report						
	ith regard to the language, this report is based on the internati dicated under this item.	onal application in the language in v	which it was filed, unless otherwise				
\boxtimes	This report is based on translations from the original language into the following which is the language of a translation furnished for the purposes of:						
	international search (Rule 12.3 and 23.1(b))						
	publication of the international application (Rule 12.	4)					
	international preliminary examination (Rule 55.2 an	d/or 55.3)					
rec	ith regard to the elements of the international application, this ceiving Office in response to an invitation under Article 14 c is report):						
	the international application as originally filed/furnished						
\boxtimes	the description:						
	pages 1,2,4-10,14		as originally filed/furnished				
	pages*3,11-13	_ received by this Authority on _	03.10.2005				
	pages*	received by this Authority on					
\boxtimes	the claims:						
	nos 1,2		as originally filed/furnished				
	nos.*	as amended (together	with any statement) under Article 19				
	nos.* 3-6	received by this Authority on	20.04.2005				
	nos.*	received by this Authority on _					
\boxtimes	the drawings:						
	sheets 1		as originally filed/furnished				
	sheets*	received by this Authority on					
	sheets*	received by this Authority on					
	a sequence listing and/or any related table(s) – see Supple	mental Box Relating to Sequence Li	sting.				
3.	The amendments have resulted in the cancellation of:						
	the description, pages						
	the claims, nos.						
		1					
	any table(s) related to sequence listing (specify):						
4.	This report has been established as if (some of) the amer						
_ 	they have been considered to go beyond the disclosure as						
	the description, pages						
	the claims, nos.						
	the drawings, sheets/figs the sequence listing (specify):						
	any table(s) related to sequence listing (specify):						
* If i	item 4 applies, some or all of those sheets may be marked "su	perseded."					

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International application No.
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Box No. V Reasoned statement under A citations and explanations su			article 35(2) with regard to novelty, inventive step or industrial applicability; apporting such statement		
1.	Statement				
	Novelty (N)	Claims	1-6	YES	
		Claims		NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-6	NO	
	Industrial applicability (IA)	Claims	1-6	· YES	
		Claims		NO	
I					

2. Citations and explanations (Rule 70.7)

Document 1: EP 1304349 A1 (Central Glass Co., Ltd.), 23

April 2003

Document 2: JP 10-139697 A (Asahi Glass Co., Ltd.), 26
May 1998

Document 3: JP 2002-516369 A (Solvay Fluor und Derivative GmbH)

(1) Novelty

A polyol composition for hard polyurethane foam, wherein the main ingredient of the foaming agent is 1,1,1,3,3-pentafluoropropane (HFC-245fa), and containing as essential ingredients 1,1,1,3,3-pentafluorobutane (HFC-365mfc) and the specific compatibilizing agent set forth in claim 1 of this application, is not disclosed in any of the documents.

Therefore the inventions set forth in claims 1 to 6 are novel.

(2) Inventive Step

Documents 1 and 2 do not indicate that the specific quantity of HFC-365mfc is contained as set forth in claims 1 to 6 of this application.

However, document 3 sets forth a foaming agent for

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

hard polyurethane foam, containing 50% or more by weight of HFC-245fa in relation to less than 50% by weight of HFC-365mfc (claim 16), therefore a person skilled in the art would be capable of having the HFC-365mfc contained in the quantity set forth in document 3 in the hard polyurethane foam set forth in document 1.

Moreover, this feature is not acknowledged to offer the invention a prominent effect.

Therefore the inventions set forth in claims 1 to 6 do not involve an inventive step in the light of documents 1 and 3 or documents 2 and 3.

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Certain documents cited

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JP 2004-83847 A 1 [E,X]	18.03.2004	16.04.2003	28.06.2002
[E.X]			
6-73			
JP 2004-176058 A 2	24.06.2004	11.11.2003	11.11.2002

2	Non-written	disclosures	(Dula 70 0)	

Box No. VI

Kind of non-written disclosure

| Date of non-written disclosure | Date of non-written disclosure | Date of non-written disclosure | referring to non-written disclosure | (day/month/year) | (day/month/year)